

ALVASTON & BOULTON  
URBAN DISTRICT COUNCIL



REPORT

: OF THE :

Medical Officer of Health

: FOR THE :

YEAR 1914.



DERBY :

FRANCIS CARTER, PRINTER, IRONGATE.



# To the Chairman and Members of the Alvaston & Boulton Urban District Council.



GENTLEMEN,

I have the honour to submit to you the Annual Report on the Health of the district under your charge for the year ending December 31st, 1914.

The work done under the Housing and Town Planning Acts is presented in detail in the Inspector's Report.

There has not been any serious outbreak of Infectious Disease during the year.

In conclusion, I wish to thank the Officials for the help given me, especially Mr. Robinson, in compiling certain portions of the Report.

I am, Gentlemen,

Yours obediently,

D. W. M. TURPIN,

*Medical Officer of Health.*



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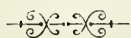
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# Annual Health Report

OF THE

## Medical Officer of Health

For the Year 1914.



### A. Natural and Social Conditions of the District.

1. The area of the district is 1,548 acres.

The Urban District of Alvaston and Boulton lies in the Southern Division of Derbyshire, on the watershed of the River Derwent.

The elevation of the district above the sea-level varies from 140 to 161 feet.

The geological formation is Alluvium.

The estimated population in the middle of 1914 was 1,440. At the Census 1911 the figures were 1,398, and at the Census 1901 the population was 1,279.

There are 362 inhabited houses, and 7 new houses were erected during the year.

The Rateable Value is £7,137 5s. od.

The Assessable Value is £5,035 7s. 6d.

The General District Rate is 3s. in the £.

Product of 1d. Rate approximately is £20 19s. 7d.

## **2. Occupation of the Inhabitants.**

The majority of the male members of the population are employed by the Midland Railway Co.

3. The amount of Poor Law Relief granted during the year 1914 was £104 4s. 6d.

The nearest hospital is the Derby Royal Infirmary, and the Shardlow Workhouse Infirmary is available for patients with the necessary qualifications.

## **B. Sanitary Circumstances of the District.**

### **1. Water Supply.**

During the past year the whole of Allenton has been supplied with the water from the Derwent Valley Water Board. The total number of houses now possessing the public source is 210.

In other parts of the district there are 152 houses supplied with well water, but this number would be considerably reduced by a continuation of the public supply through Alvaston Street, which would be connected with the mains supplying the Alvaston National Schools. Every sample of water submitted to the County Analyst in this portion of the district has been condemned as "Unfit for drinking purposes."

During the year 52 notices were served, and compliance with the orders was secured in every case.

### **2. Rivers and Streams.**

The sewage from 101 houses enters the Parish Drain, which runs into the brook for about one mile, finally discharging into the River Derwent.

### **3. Drainage and Sewerage.**

During the year 11 houses have been connected to the main sewer, this bringing the total up to 254.

#### 4. Closet Accommodation.

The number and character of the closets in the district are as follows:—

Privies .. .. .	271
Pits .. .. .	None
Pails .. .. .	9
Water-closets .. .. .	91
Slop Closets .. .. .	4

During the year 4 privies have been converted into water-closets.

All new houses are provided with w.c.'s.

#### 5. Scavenging.

This work is performed, in some portions of the district, in a more or less perfunctory manner, and the responsibility lies with the owners of property.

The refuse is carted on to the farmers' land.

#### 6. Sanitary Inspection of the District.

The tabulated statement, as required by the County Council, is as follows:—

### ANNUAL REPORT OF SANITARY INSPECTOR.

Name of Inspector - JAMES ROBINSON.

Area of District 1548 $\frac{1}{2}$ . Estimated No. of Houses 362.

New Houses Erected 1914 - 7.

No. of Houses Inspected under Section 17 .. .. .	263
No. unfit for Habitation .. .. .	5
Representations made to Local Authority as to Closing Orders.. .. .	5
Closing Orders made .. .. .	5
No. repaired without Closing Order .. .. .	20
No. repaired after Closing Order made .. .. .	None
No. Closed .. .. .	5
No. demolished .. .. .	None
No. voluntarily repaired .. .. .	20

	Number of Informal Notices served by Sanitary Inspector.	Number of Legal Notices served by Legal Authority.	Number of Nuisances abated with or without Notice.
<i>Drainage—</i>			
No Disconnection of Waste Pipe ..	6	None	—
Defective Traps, Inlets and Drains..	5	—	5
Drains Obstructed .. .. .	6	—	10
<i>Closets and Ashpits—</i>			
Insanitary Privies, Pail Closets, and Ashpits .. .. .	11	—	5
Additional Closet Accommodation ..	—	—	4
Conversion of Privies into W.C.'s ..	4	—	—
Conversion of Pail Closets into W.C.'s	None	—	—
Defective Water-Closets .. ..	—	—	9
<i>Other Defects—</i>			
Paving of Courts and Yards.. ..	8	—	—
Eaves-Spouts and Down Spouts ..	6	—	4
Urinals Defective .. .. .	—	—	—
Water Supply .. .. .	123	15	—
Offensive Accumulations .. ..	—	—	—
Animals improperly kept .. ..	8	—	—
Pigsties .. .. .	—	—	8
Smoke Nuisances .. .. .	—	—	—
Overcrowding .. .. .	1	—	—
Water in Cellars .. .. .	—	—	—
Foul Condition of Houses .. ..	4	—	—
Nuisances not specified above ..	—	—	—
	<hr/> 182	<hr/> 15	<hr/> 45

	No. on Register.	Inspections made.	Notices served.	Nuisances abated.
Dairies, Cowsheds, and Milkshops	20	80	—	—
Bakehouses .. .. .	1	12	—	—
Slaughterhouses .. .. .	—	—	—	—
Offensive Trades .. .. .	—	—	—	—
Common Lodging houses .. ..	—	—	—	—
Totals .. .. .	<hr/> 21	<hr/> 92	<hr/> —	<hr/> —

Infected Rooms disinfected.—Number, 4. Method, Sulphur Candles.

Samples submitted for Examination.—Water, 15; Milk, none.

Prosecutions, Particulars of.—None.

Food Seizures.—None.

Food Voluntarily Surrendered.—None.

Other Action taken.—None.



**7. Premises and Occupations which can be controlled by Bye-Laws or Regulations.**

**(a) BY BYE-LAWS.**

Slaughter-houses	..	None.
Bakehouses	..	One.
Offensive Trades	..	None.

**(b) BY REGULATIONS.**

Cow-keepers	..	20.
Purveyors of Milk	..	7.

There are no lodging-houses or cellar dwellings in the district. No underground sleeping rooms exist.

**8. Schools.**

There are two Public Elementary Schools in the district. The number of children on the Register at the end of the year is 365.

Both Schools are supplied with water from the public mains.

The Medical Inspection of the Schools is controlled by the County Education Committee, and is undertaken by their Medical Officer.

**9. Food.**

**(a) MILK SUPPLY.**

There are 20 cowkeepers, and approximately 304 cows in the district.

There are 7 purveyors of milk registered.

Practically all the milk sold is produced within the district.

One cow was slaughtered during the year under the Tuberculosis Order.

The Sanitary Inspector reports 80 inspections, but no notices were served, though in a few instances attention was verbally called to the neglect of lime-washing.

(t) OTHER FOODS.

There is one bakehouse in the district, and the Inspector reports 12 visits, but had no adverse comment to make.

**10. Housing.**

SUMMARY OF WORK UNDER THE HOUSING REGULATIONS.

1.—Number of dwelling-houses inspected under and for the purpose of Sec. 17 of Act 1909 .. .. .	263
2.—Number of dwelling houses which on inspection were considered to be in a state so dangerous and injurious to health as to be unfit for human habitation .. .. .	5
3.—Number of representations made to Local Authority with a view to the making of Closing Orders .. .. .	5
4.—Number of Closing Orders made .. .. . (for 5 Cottages)	1
5.—Number of dwelling-houses, the defects in which were remedied without the making of Closing Orders .. .. .	20
6.—Number of dwelling-houses which after the making of Closing Orders were put into a fit state for human habitation .. .. .	None
Number of houses still under consideration .. .. .	None
Number of houses demolished .. .. .	None
Number of houses in district Dec. 31st, 1914 .. .. .	362
Number of new houses erected .. .. .	7

**11. Workshops, Workplaces.**

Bakehouses .. .. .	1
Homework.—Making Wearing Apparel .. .. .	2

**C. Sanitary Administration of the District.**

**1. Staff.**

The Staff consists of the Medical Officer and the Inspector of Nuisances, who is also the Surveyor.

**2. Hospital Accommodation.**

The accommodation for infectious disease under the above heading is the Draycott Isolation Hospital, and it has proved to be sufficient for the few cases reported during the year.

There are 33 beds in this Hospital.

3. The Adoptive Acts in force in the district are :—

The Infectious Disease (Prevention) Act, 1890.

The Public Health (Ophthalmia Neonatorum) Regulations  
1914.

4. There were 15 analyses of water made during the year, and in every case the water was pronounced "Unfit for Drinking Purposes."

Allenton was principally the district concerned, but the public supply has now been introduced into every house in this village.

#### **D. Prevalence of and Control over Acute Infectious Diseases.**

##### **1. Notifiable Diseases.**

In the accompanying table the number of cases of acute notifiable infectious diseases during 1914 is given, but I am unable to include the corresponding number for the past few years.

Details are given showing the monthly incidence, and the number sent to the Isolation Hospital.

##### **Infectious Diseases Notified in 1914.**

Month.	Scarlet Fever.		Diphtheria.		No. sent to Hospital.	
					Scarlet Fever.	Diphtheria.
January	..	—		2	—	2
February	..	—		—	—	—
March	..	—		—	—	—
April ..	..	—		—	—	—
May ..	..	1		—	—	—
June ..	..	—		—	—	—
July ..	..	1		—	—	—
August	..	—		2	—	1
September	..	—		—	—	—
October	..	2		—	—	—
November	..	—		—	—	—
December	..	—		—	—	—
		—		—	—	—
Total ..		4		4	—	3
		—		—	—	—

The total number of acute infectious cases is 4, consisting of Diphtheria, 2; Scarlet Fever, 2.

Houses infected, 3.

Cases removed to Hospital, 1.

Deaths, 2.—Scarlet Fever, none.

Diphtheria, 2.

### **Action taken after Notification of Infectious Diseases.**

All infected homes are visited on receipt of the notification by the Medical Officer or Inspector, or both.

Arrangements are made for the removal to Draycott Hospital when it is desirable.

Instructions are given on the method of isolation, and disinfection is carried out under the supervision of the Inspector. The disinfection is done with sulphur candles.

### **2. The Non-Notifiable Diseases.**

During the year we received information from the school teachers of 12 cases of measles, but this does not represent the total number of cases in the district.

A slight epidemic of chicken pox also occurred, but there were no deaths from non-notifiable infectious diseases during the year.

## **E. Prevalence of and Control over Tuberculosis.**

The following table shows the age and sex distributions of all cases on the books during the year.

Ages	..	0-1	1-5	5-15	15-25	25-35	35-45	45-55	55-65	All ages
Males	..	—	—	1	1	1	—	—	—	3
Females	..	—	—	—	1	1	—	—	—	2
		—	—	—	—	—	—	—	—	—
Total	..	—	—	1	2	2	—	—	—	5

There were no deaths from Tuberculosis in the district during the year.

## F. Vital Statistics of the District.

### BIRTHS.

During the year 22 births were registered. This gives a birth rate per 1,000 of the population of 15·27.

On reference to Table 1 of the Local Government Board at the end of this Report, it will be noticed that a steady decline is taking place in the birth rate, this year being the lowest recorded for the district.

### Births for the Year 1914.

Month.	Boys.	Girls.	Total.
January ..	1	2	3
February ..	—	1	1
March ..	2	—	2
April ..	—	—	0
May ..	1	1	2
June ..	1	1	2
July ..	2	2	4
August ..	1	—	1
September ..	—	—	0
October ..	2	1	3
November ..	—	3	3
December ..	—	—	0
	10	11	21
Inward Transfer	1	—	1
	11	11	22

The above "Inward Transfer" refers to a child who was born outside the district, but whose parents belong to the district.

### DEATHS.

In the accompanying tables the number of deaths, with their sex distribution, is shown. Fifteen deaths were registered in the district, one of which belonged to another area, whilst four persons

belonging to this neighbourhood died outside it. This brings the nett number of deaths to 14, and yields a death rate of 9.72 per 1,000 of the population.

The causes of death are shown in Table III. of the Local Government Board.

#### Ages at Death.

	No.	Percentage.
In infancy (up to 5) ..	4	26.7
School Age (5 to 15) ..	1	6.6
Working Life (15 to 65)	6	46.7
Old Age (over 65) ..	3	20.0
	—	—
	14	100.0
	—	—

#### Deaths for the Year 1914.

Month.	Males.	Females.	Total.
January .. ..	2	—	2
February .. ..	2	1	3
March .. ..	—	—	—
April .. ..	—	—	—
May .. ..	—	1	1
June .. ..	2	—	2
July .. ..	—	1	1
August .. ..	1	1	2
September .. ..	1	—	1
October .. ..	—	1	1
November .. ..	—	—	—
December .. ..	1	—	1
	—	—	—
	9	5	14
	—	—	—

#### Zymotic Diseases.

There were 2 deaths from Diphtheria, which gives a death rate per thousand of the population of 1.38.

The following list is an analysis of the mortality for the year, distinguishing deaths of children under 5 years :—

	Under 5 years.				Over 5 years.
Diphtheria .. ..	2				—
Congenital Debility .. ..	1				—
Convulsions .. ..	1				—
Heart Disease .. ..	—				2
Alcoholism.. ..	—				1
Brights Disease.. ..	—				1
Violent Deaths (excluding Suicide)	—				2
Arteriosclerosis .. ..	—				1
Perforated Gastric Ulcer .. ..	—				1
Suicide .. ..	—				1
Uncertified .. ..	—				1
	<hr/>				<hr/>
	4				10
	<hr/>				<hr/>

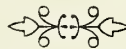


TABLE I.—(LOCAL GOVERNMENT BOARD).

**Vital Statistics of Whole District during 1914 and previous Years.**

Year.	Population estimated to middle of each Year.	Births.			Total Deaths Registered in District.		Transferable Deaths.		Nett Deaths belonging to the District.			
		Uncorrected Number.	Nett.		Number.	Rate.	Non-residents registered in the District.	Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
			Number.	Rate.					Number.	Rate per 1,000 Nett Births.	Number.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1909.	1710	36	36	20'50	19	10'58	...	...	...	...	...	...
1910.	1710	32	32	18'8	16	9'4	...	...	...	...	...	...
1911.	1398	55	60	43'6	28	20	...	...	...	...	...	...
1912.	1430	31	31	21'67	23	16'08	...	...	...	...	...	...
1913.	1438	42	42	30	11	7'64	...	...	...	...	...	...
1914.	1440	21	22	15'27	11	7'63	1	4	2	90'90	14	9'72

Area of District in acres (land and inland water) ... 1548.

Total population of all ages ... 1398

Total families or separate occupiers 362 } At Census, 1911.



TABLE II —(LOCAL GOVERNMENT BOARD).

**Cases of Infectious Diseases notified during the Year 1914.**

Notifiable Diseases.	Number of Cases notified.								Total cases removed to Hospital.
	At all ages.	At Ages—Years.							
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45.	45 to 65.	65 and upwards.	
Small-pox ... ..	...	...	...	...	...	...	...	...	...
Cholera (C) Plague (P)	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous croup)	...	4	...	3	1	...	...	...	3
Erysipelas ... ..	...	...	...	...	...	...	...	...	...
Scarlet fever ... ..	...	4	...	2	2	...	...	...	...
Typhus fever ... ..	...	...	...	...	...	...	...	...	...
Enteric fever ... ..	...	...	...	...	...	...	...	...	...
Relapsing fever (R)	...	...	...	...	...	...	...	...	...
Continued fever (C)	...	...	...	...	...	...	...	...	...
Puerperal fever ... ..	...	...	...	...	...	...	...	...	...
Cerebro-spinal Meningitis	...	...	...	...	...	...	...	...	...
Poliomyelitis ... ..	...	...	...	...	...	...	...	...	...
Pulmonary Tuberculosis	...	5	...	...	3	2	...	...	...
Other forms of Tuberculosis	...	...	...	...	...	...	...	—	...
TOTALS ... ..	13	...	5	3	3	2	...	...	3

ISOLATION HOSPITAL—Draycott Isolation Hospital.

TABLE III.—(LOCAL GOVERNMENT BOARD).

## Causes of, and Ages at Death during the Year 1914.

Causes of Death.	Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District.									Total Deaths whether of "Residents" or "non-Residents" in Institutions in the District.
	All Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.	
1	2	3	4	5	6	7	8	9	10	11
All Causes { Certified ...	13	2	...	2	...	1	1	4	3	...
{ Uncertified ...	1	...	...	...	...	...	...	1	...	...
Enteric Fever ... ..	...	...	...	...	...	...	...	...	...	...
Small-pox ... ..	...	...	...	...	...	...	...	...	...	...
Measles ... ..	...	...	...	...	...	...	...	...	...	...
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...
Whooping Cough ... ..	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup ... ..	2	...	...	2	...	...	...	...	...	...
Influenza ... ..	...	...	...	...	...	...	...	...	...	...
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis) ... ..	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis ... ..	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases ... ..	...	...	...	...	...	...	...	...	...	...
Cancer, malignant disease ... ..	...	...	...	...	...	...	...	...	...	...
Rhenmatic Fever ... ..	...	...	...	...	...	...	...	...	...	...
Meningitis ... ..	...	...	...	...	...	...	...	...	...	...
Organic Heart Disease ... ..	2	...	...	...	...	...	...	2	...	...
Bronchitis ... ..	...	...	...	...	...	...	...	...	...	...
Pneumonia (all forms) ... ..	...	...	...	...	...	...	...	...	...	...
Other diseases of respiratory organs ... ..	...	...	...	...	...	...	...	...	...	...
Diarrhœa and Enteritis ... ..	...	...	...	...	...	...	...	...	...	...
Appendicitis and Typhlitis ... ..	...	...	...	...	...	...	...	...	...	...
Cirrhosis of Liver ... ..	...	...	...	...	...	...	...	...	...	...
Alcoholism ... ..	1	...	...	...	...	...	...	1	...	...
Nephritis & Bright's Disease ... ..	1	...	...	...	...	...	...	...	1	...
Puerperal Fever ... ..	...	...	...	...	...	...	...	...	...	...
Other accidents and diseases of Pregnancy & Parturition ... ..	...	...	...	...	...	...	...	...	...	...
Congenital Debility and Malformation, including Premature Birth ... ..	1	1	...	...	...	...	...	...	...	...
Violent Deaths, excluding Suicide ... ..	2	...	...	...	...	...	1	1	...	...
Suicide ... ..	1	...	...	...	...	...	...	...	1	...
Other Defined Diseases ... ..	2	...	...	...	...	1	...	...	1	...
Diseases ill-defined or unknown ... ..	2	1	...	...	...	...	...	1	...	...
TOTALS ... ..	14	2	..	2	...	1	1	5	3	...

TABLE IV.—(LOCAL GOVERNMENT BOARD).

## Infant Mortality 1914.

Nett Deaths from stated causes at various Ages under 1 Year of Age.

Causes of Death.		Under 1 week.	1—2 weeks.	2—3 weeks.	3—4 weeks.	Total under 4 weeks.	4 weeks and under 3 months.	3 months and under 6 months.	6 months and under 9 months.	9 months and under 12 months.	Total Deaths under 1 year
All Causes	{ Certified	...	...	...	...	...	...	...	...	...	...
	{ Uncertified	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...
Chicken-pox	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	...	...
Scarlet fever	...	...	...	...	...	...	...	...	...	...	...
Whooping-Cough	...	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...
Meningitis ( <i>not Tuberculous</i> )	...	...	...	...	...	...	...	...	...	...	...
Convulsions	...	...	...	...	...	...	...	1	...	...	...
Laryngitis	...	...	...	...	...	...	...	...	...	...	...
Bronchitis	...	...	...	...	...	...	...	...	...	...	...
Pneumonia (all forms)	...	...	...	...	...	...	...	...	...	...	...
Diarrhoea	...	...	...	...	...	...	...	...	...	...	...
Enteritis	...	...	...	...	...	...	...	...	...	...	...
Gastritis	...	...	...	...	...	...	...	...	...	...	...
Syphilis	...	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...
Injury at Birth	...	...	...	...	...	...	...	...	...	...	...
Atelectasis	...	...	...	...	...	...	...	...	...	...	...
Congenital Malformations	...	...	...	...	...	...	...	...	...	...	...
Premature Birth	...	1	...	...	...	...	...	...	...	...	...
Atrophy, Debility and Marasmus	...	...	...	...	...	...	...	...	...	...	...
Other Causes...	...	...	...	...	...	...	...	...	...	...	...
Totals		1	...	...	...	...	...	...	1	...	...

Nett Births in the year { legitimate 22 illegitimate }      Nett Deaths in the year of { legitimate infants 2 illegitimate }

